

# Determination of Transition Temperatures of Hydrates

## Objective:

When substances change from one solid phase into another the change is accompanied by absorption or evolution of heat. The temperature at which such a change takes place is called the transition temperature. In this experiment you will determine the transition temperatures of solids. The data collected will be appropriately represented using graphs with a proper rationale for the observation. The solids that may be used for the experimental study are sodium thiosulphate penta hydrate, sodium sulfate decahydrate, sodium acetate dehydrate.

- Research and come up with a possible lab procedure for setting up your equipments and performing the experiment.
- Include safety concerns that should be addressed
- Make a list of equipments that may be used to perform the experiment.
- Submit a draft of the procedure adopted for the lab to your teacher and discuss if the materials required are available and the lab activity can be performed.
- Choose a convenient time for your experiment, record your data and present your findings as instructed.